

PROJECT TITLE : AGRICULTURAL CHEMICALS
PERIOD COVERED : MARCH 1980
WRITTEN BY : M. SPECK

ROUTINE ANALYSES

Number of tobacco samples analyzed for pesticide residues:

Organochlorines	57
Organophosphorus	57
Dithiocarbamate	56
Ridomil	55

Abnormal high pesticide residue levels were found in Australian leaf tobacco samples: up to 7 ppm Ridomil and 100 ppm DDT in Australian Bright and 1.4 ppm Ridomil and 2.5 ppm Endrin in Burley.

Ridomil residue determinations on samples taken from different plant positions show high residue values for lower plant position, e.g. for Australian Bright Tatti, Mutchilba N.Q.: cutters 0.32 ppm lugs 2.31 ppm, leaf 0.23 ppm and tips 0.13 ppm Ridomil.

NEW ANALYTICAL METHODS

Determination of Aldicarb:

Analytical work for joint experiments suggested by the CORESTA Pesticide Sub-Group in Athens, November 1979, was completed.

Two procedures for the oxidation of Aldicarb to Aldicarb sulfone, oxidation with a) hydrogen peroxide/acetic acid 1 : 1 and b) peracetic acid, were tested. Both methods give identical values for Aldicarb sulfone. The values are, however, somewhat lower than those obtained with our own method.

M. Speck